

AMENDMENTS TO THE CLAIMS

1 1. (Currently amended) In a computer system, a method for collectively performing
2 validation of credential information of one or more product distributors associated with one or
3 more product distribution transactions, the method comprising:

4 obtaining a set of available credential information of each of the distributors;
5 storing the set of credential information in the computer system, wherein the credential
6 information is stored in a form that can be processed by the computer system;
7 loading from at least one data source a set of credential validation rule data associated
8 ~~with said credential information from at least one data source~~;
9 ~~obtaining at least sales one or more transaction product distribution transactions~~
10 associated with ~~at least one distributor~~ one or more distributors; and
11 processing in the computer system the rule data to validate the obtained credential
12 information of each of the distributors associated with each of the product
13 distribution transactions in accordance with predetermined validation criteria and
14 to determine whether the validated credential information meets eligibility
15 requirements for compensation associated with each of the obtained product
16 distribution transactions.
17 ~~computing a commission for said at least one distributor~~;
18 ~~converting said at least one sales transaction into a collective data set for submission to a~~
19 ~~rule engine~~;
20 ~~validating said collective group to produce a validation result, said validation result~~
21 ~~indicating whether to credit said commission to said at least one distributor~~; and
22 ~~executing a predetermined action depending on said validation result.~~

1 2. (Currently amended) The method of claim 1 wherein said obtaining said set of
2 available credential information further comprises denormalizing data from a plurality of
3 database tables.

1 3. (Currently amended) The method of claim 1 wherein said loading from at least
2 one data source said set of credential validation rule data further comprises loading said set of
3 rule data from a standard format data file.

1 4. (Original) The method of claim 3 wherein said loading said set of rule data
2 from standard format data file further comprises parsing data from a file having an Extensible
3 Markup Language (XML) format.

1 5. (Currently amended) The method of claim 1 wherein ~~said validating said~~
2 ~~collective group further comprises~~ processing in the computer system the rule data further
3 comprises:
4 determining ~~said~~ a set of rules associated with said collective group by using a set of
5 preconditions to filter among a plurality of rules, said rule data comprising at least
6 one test having an associated type;
7 partitioning said set of rules based on said type of said at least one test associated with
8 said set of rules;
9 ~~selecting a processor for each of said type of said at least one test, said processor~~
10 preparing said collective group wherein said collective group comprises tests
11 associated with said test type; and
12 determining for said set of rule data whether said at least one test associated with said set
13 of rules are valid.

1 6. (Currently amended) The method in claim 1 wherein said step of executing a
2 predetermined action further comprises further comprising:
3 computing ~~commission allocations to said sales party~~ compensation for each distributor
4 having validated credential information that meets the eligibility requirements for
5 compensation associated with each of the sales transactions.

1 7. Canceled.

1 8. Canceled.

1 9. (Currently amended) ~~In a computer system, a method for collectively performing~~
2 ~~validation of credential information.~~ The method of claim 1 further comprising:

3 obtaining ~~a~~ the set of available credential information for at least one ~~distributor of the~~
4 distributors from two or more tables;

5 denormalizing said set of available credential information from said two or more tables
6 into a denormalized database table;

7 ~~obtaining~~ wherein the rule data comprises a set of test conditions data from at least one
8 data source; and

9 processing in the computer system the rule data comprises applying a credential test by
10 querying said denormalized table with said set of test conditions data;

1 10. (Currently amended) The method of claim 1 wherein said obtaining a set of
2 available credential information further comprises using database connections.

1 11. (Currently amended) The method of claim ~~4~~ 9 wherein said denormalizing said
2 set of credential information further comprises creating one or more database tables.

1 12. (Currently amended) The method of claim ~~4~~ 9 wherein said denormalizing said
2 set of credential information further comprises joining at least two database tables into at least
3 one database table.

1 13. (Currently amended) The method of claim 1 further comprising:
2 ~~wherein said obtaining a set of test conditions data further comprises parsing the rule data~~
3 from a data file.

1 14. (Currently amended) The method of claim ~~5~~ 3 wherein said data file further
2 comprises a data file having an Extensible Markup Language (XML) format.

1 15. (Currently amended) The method of claim 1 ~~9 wherein said obtaining a set of test~~
2 ~~conditions data further comprises obtaining said set of test conditions data from data source~~
3 ~~comprises a database further comprising:~~
4 defining the rule data.

1 16. (Currently amended) The method of claim 1 ~~15 wherein said obtaining a set of~~
2 ~~test conditions data further comprises~~ further comprising storing said ~~set of test conditions~~ rule
3 data into a database table.

1 17. (Currently amended) The method of claim 1 ~~9 wherein said applying a credential~~
2 test further comprises joining said set of test conditions data with said denormalized database
3 table.

1 18. (Currently amended) In a computer system, a method for collectively performing
2 validation of credential information of one or more product distributors associated with one or
3 more product distribution transactions, the method comprising:
4 receiving product distribution transaction data derived from the one or more product
5 distribution transactions;
6 if the product distribution transaction data is unusable by the computer system to validate
7 the credential information, converting the product distribution transaction data
8 into a form usable by a rule engine;
9 determining a set of one or more distributors associated with the received product
10 distribution transaction data;
11 obtaining credential information that relates to each member of the set of distributors
12 associated with one or more of the product distribution transactions;
13 storing the set of credential information in the computer system, wherein the credential
14 information is stored in a form that can be processed by the computer system;
15 loading rule information utilizable to determine if each member of the set of distributors
16 is properly credentialed to receive compensation related to the received product
17 distribution transaction data;

18 executing a rule engine to process the rule information and credential information to
19 determine which, if any, of the one or more members of the set of distributors are
20 properly credentialed to receive compensation related to the product distribution
21 transaction data; and
22 determining compensation for each member of the set of distributors that is properly
23 credentialed to receive compensation related to the product distribution
24 transaction data.
25 ~~obtaining at least one transaction data;~~
26 ~~obtaining at least one distributor references associated with said at least one transaction~~
27 ~~data;~~
28 ~~obtaining a set of distributor credentials using said at least one distributor references;~~
29 ~~obtaining a set of test rules data;~~
30 ~~denormalizing said set of distributor credentials into at least one credential database table;~~
31 ~~validating said set of distributor credentials by applying said set of test rules against said~~
32 ~~credential database table.~~

1 19. (Currently amended) The method of claim 10 ~~18~~ wherein ~~said obtaining at least~~
2 ~~one transaction data further~~ converting product distribution transaction data into transaction input
3 data usable by a rule engine comprises loading said product distribution transaction data into at
4 least one data source.

1 20. (Currently amended) The method of claim 10 ~~18~~ wherein ~~at least one~~ the product
2 distribution transaction data further comprises ~~said at least one transaction data~~ having an
3 Extensible markup language (XML) format.

1 21. (Currently amended) The method of claim 10 ~~18~~ wherein ~~said obtaining said set~~
2 ~~of test rules data~~ loading rule information further comprises loading said ~~set of test rules data~~ rule
3 information from at least one data source having an Extensible markup language (XML) format.

1 22. (Currently amended) The method of claim 10 18 wherein said credential
2 information is stored in multiple database tables, the method further comprising:
3 ~~said~~ denormalizing said ~~set of distributor credentials~~ credential information stored in the
4 database tables; and
5 ~~further comprises~~ joining at least two of the database tables into ~~at least~~ one database
6 table.

1 23. (Currently amended) The method of claim 10 18 wherein ~~said validating said set~~
2 ~~of distributor credentials further comprises~~ said credential information is stored in multiple
3 database tables, said rule information comprises test rules, and executing a rule engine to process
4 the rule information and credential information further comprises joining at least two database
5 tables containing said set of test rules and said credential information.

1 24. Canceled.

1 25. (Currently amended) The method of claim 16 18 wherein said ~~obtaining~~ loading
2 of said ~~of~~ rule set information further comprises loading said rule set information from a standard
3 format data file.

1 26. (Currently amended) The method of claim 16 18 wherein said determining
2 whether said credential information of said at least one sales representative conforms to said
3 regulatory constraints executing a rule engine to process the rule information and credential
4 information further comprising comprises:
5 determining ~~said a~~ rule set associated with said credential information using a set of
6 preconditions to filter among a plurality of rules, said rule data comprising at least
7 one test having an associated type;
8 partitioning said set of rules based on said type of said at least one test associated with
9 said set of rules;
10 ~~selecting a processor for each of said type of said at least one test, said processor~~
11 preparing said collective group wherein said collective group comprises tests
12 associated with said test type; and

13 determining for said set of rule data whether said at least one test associated with said set
14 of rules are valid.

1 27. (New) The method of claim 1 wherein product distribution transactions comprise
2 data related to sales of a product.

1 28. (New) The method of claim 6 wherein compensation comprises a commission.

1 29. (New) The method of claim 1 wherein product distributors comprise one or more
2 members of the group consisting of sales agents, sales representatives, supervisors of the sales
3 agents, and supervisors of the sales representatives.

1 30. (New) The method of claim 1 wherein:
2 the rule data comprises credential information identifying regulatory constraints for each
3 of the obtained sales transactions placed on at least one of the distributors
4 associated with said obtained sales transaction; and
5 processing in the computer system the rule data to validate the obtained credential
6 information comprises determining if said credential information obtained sales
7 transactions placed on at least one of the distributors conforms to said regulatory
8 constraints.

1 31. (New) The method of claim 1 wherein predetermined validation criteria
2 comprises at least one member of the group comprising:
3 required educational credits;
4 required licenses;
5 required level of liability coverage;
6 license renewal requirements;
7 background check; and
8 residency rules.

1 32. (New) The method of claim 1 processing in the computer system the rule data
2 further comprises processing the rule data for multiple product distribution transactions

3 comprises batch processing the rule data for multiple product distribution transactions for
4 batches of product distribution transactions.

1 33. (New) The method of claim 5 wherein the set of preconditions comprises at least
2 one member of the group comprising:
3 a product class precondition;
4 a jurisdiction precondition; and
5 an end date precondition.

1 34. (New) A computer system comprising:
2 a processor;
3 a memory coupled to the processor, the memory having code executable by the process
4 stored therein to:
5 obtain a set of available credential information of one or more product distributors
6 associated with one or more product distribution transactions;
7 store the set of credential information in the computer system, wherein the
8 credential information is stored in a form that can be processed by the
9 computer system;
10 load from at least one data source a set of credential validation rule data;
11 obtain one or more product distribution transactions associated with one or more
12 distributors; and
13 process in the computer system the rule data to validate the obtained credential
14 information of each of the distributors associated with each of the product
15 distribution transactions in accordance with predetermined validation
16 criteria and to determine whether the validated credential information
17 meets eligibility requirements for compensation associated with each of
18 the obtained product distribution transactions.

1 35. (New) The computer system of claim 34 wherein the code to obtain a set of
2 available credential information of one or more product distributors associated with one or more

3 product distribution transactions further comprises code to denormalize data from a plurality of
4 database tables.

1 36. (New) The computer system of claim 34 wherein the code to load from at least
2 one data source a set of credential validation rule data further comprises code to load said set of
3 rule data from a standard format data file.

1 37. (Original) The computer system of claim 36 wherein the code to load said set
2 of rule data from a standard format data file further comprises code to parse data from a file
3 having an Extensible Markup Language (XML) format.

1 38. (New) The computer system of claim 36 wherein said data file further comprises
2 a data file having an Extensible Markup Language (XML) format.

1 39. (New) The computer system of claim 34 wherein the code to process in the
2 computer system the rule data further comprises code to:
3 determine a set of rules associated with said collective group by using a set of
4 preconditions to filter among a plurality of rules, said rule data comprising at least
5 one test having an associated type;
6 partition said set of rules based on said type of said at least one test associated with said
7 set of rules;
8 prepare said collective group wherein said collective group comprises tests associated
9 with said test type; and
10 determine for said set of rule data whether said at least one test associated with said set of
11 rules are valid.

1 40. (New) The computer system of claim 34 further comprising code to:
2 compute compensation for each distributor having validated credential information that
3 meets the eligibility requirements for compensation associated with each of the
4 sales transactions.

1 41. (New) The computer system of claim 34 further comprising code to:
2 obtain the set of available credential information for at least one of the distributors from
3 two or more tables;
4 denormalize said set of available credential information from said two or more tables into
5 a denormalized database table;
6 wherein the rule data comprises a set of test conditions data from at least one data source;
7 and
8 process the rule data comprises applying a credential test by querying said denormalized
9 table with said set of test conditions data.

1 42. (New) The computer system of claim 41 wherein the code to denormalize said set
2 of credential information further comprises code to create one or more database tables.

1 43. (New) The computer system of claim 41 wherein the code to denormalize said set
2 of credential information further comprises code to join at least two database tables into at least
3 one database table.

1 44. (New) The computer system of claim 41 further comprising code to:
2 facilitate defining the rule data.

1 45. (New) The computer system of claim 41 wherein said code to apply a credential
2 test further comprises code to join said set of test conditions data with said denormalized
3 database table.

1 46. (New) The computer system of claim 44 further comprising code to store said
2 rule data into a database table.

1 47. (New) The computer system of claim 34 wherein said code to obtain a set of
2 available credential information further comprises code to use database connections.

1 48. (New) The computer system of claim 34 further comprising code to:
2 obtain the rule data from a data file.

1 49. (New) An article of manufacture comprising processor executable code to:
2 obtain a set of available credential information of one or more product distributors
3 associated with one or more product distribution transactions;
4 store the set of credential information in the computer system, wherein the credential
5 information is stored in a form that can be processed by the computer system;
6 load from at least one data source a set of credential validation rule data;
7 obtain one or more product distribution transactions associated with one or more
8 distributors; and
9 process in the computer system the rule data to validate the obtained credential
10 information of each of the distributors associated with each of the product
11 distribution transactions in accordance with predetermined validation criteria and
12 to determine whether the validated credential information meets eligibility
13 requirements for compensation associated with each of the obtained product
14 distribution transactions.

1 50. (New) An apparatus to collectively performing validation of credential
2 information of product distributors associated with a product distribution transaction, the
3 apparatus comprising:
4 means for obtaining a set of available credential information of each of the distributors;
5 means for storing the set of credential information in the computer system, wherein the
6 credential information is stored in a form that can be processed by the computer
7 system;
8 means for loading from at least one data source a set of credential validation rule data;
9 means for obtaining one or more product distribution transactions associated with one or
10 more distributors; and
11 means for processing in the computer system the rule data to validate the obtained
12 credential information of each of the distributors associated with each of the

product distribution transactions in accordance with predetermined validation criteria and to determine whether the validated credential information meets eligibility requirements for compensation associated with each of the obtained product distribution transactions.

51. (New) An apparatus to collectively performing validation of credential information of one or more product distributors associated with one or more product distribution transactions, the apparatus comprising:

- means for receiving product distribution transaction data derived from the one or more product distribution transactions;
- means for converting the product distribution transaction data into a form usable by a rule engine if the product distribution transaction data is unusable by the computer system to validate the credential information;
- means for determining a set of one or more distributors associated with the received product distribution transaction data;
- means for obtaining credential information that relates to each member of the set of distributors associated with one or more of the product distribution transactions;
- means for storing the set of credential information in the computer system, wherein the credential information is stored in a form that can be processed by the computer system;
- means for loading rule information utilizable to determine if each member of the set of distributors is properly credentialed to receive compensation related to the received product distribution transaction data;
- means for executing a rule engine to process the rule information and credential information to determine which, if any, of the one or more members of the set of distributors are properly credentialed to receive compensation related to the product distribution transaction data; and
- means for determining compensation for each member of the set of distributors that is properly credentialed to receive compensation related to the product distribution transaction data.